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1. 9.02.03.77-R : Secure Email Agent Using the Domain Name System (DNS) as a Trust Infrastructure

Release Date: 02-19-2014Open Date: 02-19-2014Due Date: 05-02-2014Close Date: 05-02-2014

Email is widely used for Internet communication both in dialogs between people and one-way messaging and notification systems (e.g., Email from your bank noting a deposit). However, email is inherently insecure and often spoofed by attackers looking to impersonate another user, or institution, in order to trick a victim to download malware or view a malicious site. This type of attack (often calle ...

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2. 9.02.04.68-R : Silicon Single-Photon Avalanche Diodes with Detection Efficiency that Exceeds 95 %

Release Date: 02-19-2014Open Date: 02-19-2014Due Date: 05-02-2014Close Date: 05-02-2014

Recent advances in quantum communications and quantum random number generation have identified the critical need for detectors with single-photon detection efficiency above bounds that are determined by information theory. Additional losses in any preceding optical components require that the efficiency of the subsequent detectors be even higher. Devices of this type may be used in verifiable rand ...

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3. 9.03: Health Care

Release Date: 02-19-2014Open Date: 02-19-2014Due Date: 05-02-2014Close Date: 05-02-2014

DOC SBIR 2014-NIST-SBIR-01 Instrument to Detect Aerosolized-Droplet Dose Delivery of Vaccines Production of NIST/UCSF Breast Phantom for Magnetic Resonance Imaging (MRI) 9.03 DOC SBIR 2014-NIST-SBIR-01 ...

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4. 9.03.01.63-R : Instrument to Detect Aerosolized-Droplet Dose Delivery of Vaccines

Release Date: 02-19-2014Open Date: 02-19-2014Due Date: 05-02-2014Close Date: 05-02-2014

Delivery of aerosolized drugs through the pulmonary system has received much attention in recent years for addressing a variety of health issues – in particular the delivery of vaccines. Higher costs and increased chemical toxicity of drugs under consideration are requiring more stringent dose delivery criteria, and thus has affected inhaler design and development. Little quantitative inform ...

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5. 9.03.02.68-R : Production of NIST/UCSF Breast Phantom for Magnetic Resonance Imaging (MRI)

Release Date: 02-19-2014Open Date: 02-19-2014Due Date: 05-02-2014Close Date: 05-02-2014

NIST, in conjunction with University of California San Francisco (UCSF), has designed a breast phantom for quantitative magnetic resonance imaging (MRI), specific to American College of Radiology Imaging Network (ACRIN) trial 6698. A phantom is an inanimate structure used to calibrate and test MRI scanners, coils, and their operating protocols. The initial design has received interest from researc ...

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6. 9.04: Manufacturing

Release Date: 02-19-2014Open Date: 02-19-2014Due Date: 05-02-2014Close Date: 05-02-2014

DOC SBIR 2014-NIST-SBIR-01 Compact, Rapid Electro-Optic Laser Scanner for Absolute 3D Imaging Computer Aided Standards Development (CASD) – A Software Tool to Automate Standards Development Process Erbium-Based DPSS Lasers for Remote Sensing Precision Spe ...

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7. 9.04.01.68-R : Compact, Rapid Electro-Optic Laser Scanner for Absolute 3D Imaging

Release Date: 02-19-2014Open Date: 02-19-2014Due Date: 05-02-2014Close Date: 05-02-2014

Real time, three-dimensional (3D) imaging is needed by industry for both machine vision and monitoring of manufacturing processes. Today’s 3D imaging equipment have significant technical limitations: poor image resolution, low refresh rate, as well as a lack of rigorous, calibrated distance measurements, which render the equipment inadequate for high-quality measurements in today’s cha ...

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8. 9.04.02.73-R : Computer Aided Standards Development (CASD) – A Software Tool to Automate Standards Development Process

Release Date: 02-19-2014Open Date: 02-19-2014Due Date: 05-02-2014Close Date: 05-02-2014

The design and development of standards is a long and tedious process. This process is often hampered by requirements to keep complex terminology consistent and keeping its associated information content current. The implementation and adoption of standards is slowed by the gap between the technical requirements in a standard and the technology required to implement those requirements. This SBIR s ...

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9. 9.04.03.68-R : Erbium-Based DPSS Lasers for Remote Sensing

Release Date: 02-19-2014Open Date: 02-19-2014Due Date: 05-02-2014Close Date: 05-02-2014

The primary objective is to develop a narrow-band, tunable, diode-pumped solid-state (DPSS) pulsed laser system operating in the eye-safe infrared region around 1.6 micrometers in wavelength. Such laser systems are in demand for remote sensing of fugitive emissions, which can cost millions of dollars to industry, as well as for sensing and mitigation of pollutants for regulatory requirements and r ...

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10. 9.04.04.63-R : Precision Specimen Control for Transmission Scanning Electron Microscopy

Release Date: 02-19-2014Open Date: 02-19-2014Due Date: 05-02-2014Close Date: 05-02-2014

The primary objective is to significantly extend the capabilities of the scanning electron microscope (SEM), a tool considered invaluable for characterizing materials and products in numerous forms of manufacturing. Examples range from extremely fine-scale structures found in nanoparticle production and semiconductor processing to large-scale structures used for transportation and infrastructural ...

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